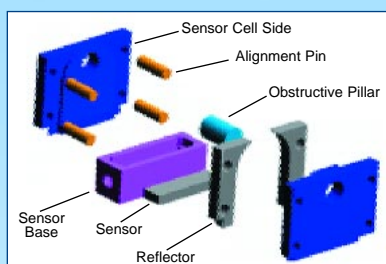


HSTSS DIAGNOSTIC FUZE

The HSTSS program has developed a miniature telemetry kit featuring a sensor suite and data-acquisition system that provides in-flight angular motion and deceleration histories of high-G munitions. The entire kit is contained in a NATO-compatible fuze volume. This "diagnostic fuze" kit was successfully tested in a modified 120-mm training round launched from a tank cannon at 32,000 G's setback acceleration and 1080 m/s muzzle velocity. Various on-board sensors can be selected to provide in-bore acceleration or down range body-fixed inertial measurements as the customer needs vary.



ARL Optical Solar Sensor



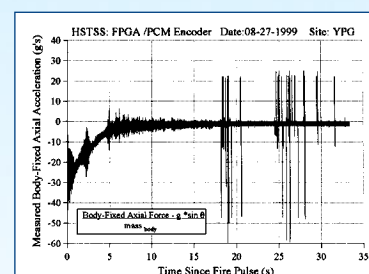
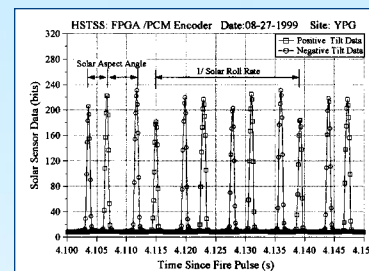
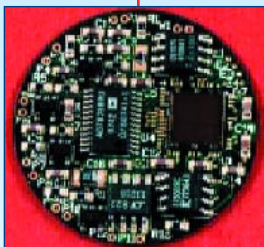
LiMnO₂ Primary Battery



MEMS Accelerometer



Field Programmable Gate Array (FPGA)
Pulse Code Modulation (PCM) Data Encoder



HSTSS Portable Telemetry Station